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AN INTERDISCIPLINARY DIRECTORY OF SCIENTISTS ENGAGED IN THE STU--ETC(U)  
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AN INTERDISCIPLINARY DIRECTORY OF SCIENTISTS ENGAGED  
IN THE STUDY OF EYE MOVEMENTS

Third Edition

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Richard A. Monty  
B. Diane Eberly



May 1976

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U. S. ARMY HUMAN ENGINEERING LABORATORY  
Aberdeen Proving Ground, Maryland

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AN INTERDISCIPLINARY DIRECTORY OF SCIENTISTS ENGAGED  
IN THE STUDY OF EYE MOVEMENTS

Third Edition

Richard A. Monty

and

B. Diane Eberly

May 1976

APPROVED

*John D. Weisz*  
JOHN D. WEISZ  
Director  
U.S. Army Human Engineering Laboratory

U.S. ARMY HUMAN ENGINEERING LABORATORY  
Aberdeen Proving Ground, Maryland

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### Abstract

This directory lists names, addresses, phone numbers, educational background and interests of approximately 175 scientists involved or interested in the study of eye movements and related processes. Entries were made on a voluntary basis and a form is enclosed for those who wish to be included in subsequent editions.

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REMARKS:

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RICHARD A. MONTY  
Human Engineering Laboratory  
Behavioral Research Directorate  
Aberdeen Proving Ground, MD 21005

**ADDENDUM**

**Entry submitted too late for inclusion:**

**Johnson, Frank, Medical Physics, University Hospital, Nottingham, NG7 2UH, England; 0608-700111; B.Sc., University of Salford, 1968, Electronics; M.A.Sc., University of Toronto, 1970, Bioengineering; Ph.D., University of Toronto, 1973, Neural Control Systems.** 1. Radiographic search and perception (A) 2. Temporal correlates of spatial search (A) 3. Training and search efficiency (A). a. N.A.C. Eye Mark Recorder b. E.O.G.

### Description of Directory Entry Format

The directory entry format contains the information items described below:

1. Name
2. Preferred mailing address
3. Telephone number
4. Degrees, schools and fields of specialization
5. Areas of interest (numbered) followed by either an (A) indicating that the listee is actively involved in research or an (I) indicating that he or she is inactive in that area.
6. Eye movement devices that are currently available to the listee (lettered).

Adams, Anthony J., University of California, School of Optometry, Berkeley, California, 94720; 415-642-5904; B. App. Sc., Melbourne University, 1962, Applied Science; L.O. Sc., Victorian College, 1962, Optometry; Ph.D., Indiana University, 1970, Physiological Optics. 1. Tracking (I) 2. Search (I). a. Electro-optical (limbal sensing) b. E.O.G.

Aiken, E. G., Code 306, Navy Personnel Research and Development Center, San Diego, California, 92152; 225-6617; Ph.D., University of Illinois, 1954, Psychology. 1. Reading (A) 2. Attention (A) 3. Effort (I). a. Whit-tiker.

Anliker, James, NASA/Ames Research Center, Biotechnology Division, Moffett Field, California, 94035; 415-965-5952; M.S., University of Chicago, 1952, Biological Sciences; Ph.D., Harvard University, 1955, Experimental Psychology. 1. Imagery (A) 2. E.M. & E.E.G. (A). a. Biometrics b. E.O.G.

Antes, James R., Department of Psychology, University of North Dakota, Grand Forks, North Dakota, 58201; 701-777-3451; B.A., Drake University, 1968, Physics; M.S., Iowa State University, 1970, Psychology; Ph.D., Iowa State University, 1973, Psychology. 1. Picture Perception (A) 2. Visual Attention (A). a. Biometrics.

Arend, Jr., Lawrence E., Department of Psychology, Brandeis University, Waltham, Massachusetts, 02154; 617-647-2954; A.B., Stanford University, 1965, Psychology; Ph.D., Duke University, 1970, Psychology. 1. Main-tenance of vision (A) 2. Target detection, search, & scanning (A). a. Search coil in suction contact lens (A. Skavenski).

Bach'y-Rita, Paul, Smith-Kettlewell Institute of Visual Sciences, 2232 Webster Street, San Francisco, California, 94115; 415-563-4321, ext. 2481; M.D., National University of Mexico, 1959, Medicine. 1. Neuro-physiology (A) 2. Morphology of Eye Muscles (A).

Baker, Mary Anne, Indiana University Southeast, New Albany, Indiana, 47150; 812-945-2731, ext. 293; B.A., University of Louisville, 1964, Art History; M.A., University of Louisville, 1969, Psychology; Ph.D., Uni-versity of Louisville, 1971, Psychology. 1. Form Perception (A) 2. Stimulus Variables Affecting (A) 3. Mathematical Predictions (A). a. Mackworth Eye Camera.

Bertera, James H., 607 N.E. 15th Street, Oklahoma City, Oklahoma, 73108; 405-272-9876; B.A., Fairfield University, 1970, Psychology; M.A., Hollins College, 1972, Psychology. 1. Search (A) 2. Tracking Self-Moved Targets (A) 3. Hand-Eye Coordination (A). a. E.O.G. b. Corneal Reflec-tion (home-built) c. Video Tape.

Bischof, Norbert, California Institute of Technology, Biology Division, Pasadena, California, 91109; 213-795-6811, ext. 2559; Ph.D., University of Munich, 1966, Psychology. 1. Space constancy (A). a. IR-Recording.

**Bizzi, Emilio**, Department of Psychology, E10-235, Massachusetts Institute of Technology, Cambridge, Massachusetts, 02139; 617-253-5769; M.D., University of Rome, 1958. 1. Central control of eye movements (A) 2. Eye-hear coordination (A) 3. Vestibular system (A). a. silver-silver chloride electrodes b. Methods of Bond & Ho.

**Bowen, Richard W.**, Department of Psychology, Columbia University, New York, New York, 10027; 212-280-4325; B.A., Case Western Reserve, 1968, English/Psychology; M.A., Columbia University, 1970, Psychology; Ph.D., Columbia University, 1974, Psychology. 1. Eye Movements and Space Perception (A) 2. Oculomotor Control (A) 3. Oculomotor Physiology (I). a. Scleral contact lens - optical lever system.

**Bradshaw, J. L.**, Department of Psychology, Monash University, Clayton, Vic. 3168, Australia; 541-3958; M.A., Oxford University, 1963, Experimental Psychology; Ph.D., Sheffield University, 1967, Experimental Psychology. 1. Reading (A) 2. Information Processing (A) 3. Pattern Perception (A). a. Closed circuit TV.

**Brooks, Barbara A.**, Department of Physiology and Biophysics, University of Washington, Seattle, Washington, 98195; 206-543-1430; B.A., University of Florida, 1957, Experimental Psychology; M.A., University of Florida, 1959, Experimental Psychology; Ph.D., Florida State University, 1964, Experimental Psychology. 1. Target detection (A) 2. Visual neurophysiology (A) 3. Spatial and temporal stability (higher processes) (A). a. E.O.G. electrode (human) b. E.O.G. electrode implant (monkey) c. Eyecoil implant in electro-magnetic field (monkey).

**Brown, Brian**, Smith-Kettlewell Institute of Visual Sciences, 2232 Webster Street, #204, San Francisco, California, 94115; 415-567-2865; B.A.S., Melbourne University, 1965, Optometry; M.A.S., Melbourne University, 1969, Optometry; B.S., Melbourne University 1969, Psychology & Physiology; Ph.D., Melbourne University, 1971, Optometry. 1. Saccadic Control (A) 2. Smooth Pursuit Control (A) 3. Search (I). a. Limbal sensing b. E.O.G.

**Brown, Donald R.**, Stewart Center 109, Purdue University, West Lafayette, Indiana, 47907; 317-749-2221; B.S., Purdue University, 1957, Psychology; M.S., Purdue University, 1959, Psychology; Ph.D., Purdue University, 1961, Psychology. 1. Reading (A) 2. Stabilized Images (A) 3. Search (I). a. Eye Camera b. Stabilized Image "System".

**Buchsbaum, Monte**, Chief, Unit on Perceptual and Cognitive Studies, Room 2N-212, Bldg. 10, National Institute of Mental Health, Bethesda, Maryland, 20014; 301-496-4749; M.D., University of California, 1965, Medicine. 1. Eye Tracking 2. Individual differences in search patterns. a. Corneal reflection monitored with computer-TV camera. b. Biometric infrared.

**Carpenter, Patricia A.**, Psychology Department, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 15213; 412-621-2600, ext. 323; B.S., University of Iowa, 1968, Psychology; Ph.D., Stanford University, 1972, Psychology. 1. Reading and processes in sentence-picture comparison (A) 2. Visual search (A). a. Corneal-reflectance, eye marker with computerized stimulus display and scoring.

Christensen, Julien M., Department of Industrial Engineering and Operations Research, College of Engineering, Wayne State University, Detroit, Michigan, 48202; 313-577-3821; B.S., University of Illinois, 1940, Accounting and Economics; M.A., Ohio State University, 1952, Psychology; Ph.D., Ohio State University, 1959, Experimental Psychology and Statistics. 1. Peripheral Vision Form Field Studies (I) 2. Search (I) 3. Reading (I). a. Eye-Movement Camera b. Eye-View Monitor.

Clement, Warren F., Systems Technology, Inc., 194 Nassau Street, Suite 38, Princeton, New Jersey, 08540; 609-924-4228; B.S., Massachusetts Institute of Technology, 1950, Aerospace Engineering; M.S., Massachusetts Institute of Technology, 1951, Aerospace Engineering. 1. Manual Control Displays (A) 2. Image Scanning and Perception (A) 3. Reading (A). a. STI Mark I and Mark II Eye Point of Regard Systems.

Cohen, Bernard, Department of Neurology, Mount Sinai School of Medicine, New York, New York, 10029; 212-650-7068; A.B., Middlebury College, 1950, Chemistry-Biology; M.D., New York University, 1954, Medicine. 1. Reticular control of eye movements (A) 2. Visual-vestibular interactions (A) 3. Eye movements of normal and hyperkinetic children and Parkinson patients (A). a. E.O.G. b. Biometrics Photoelectric monitor.

Cohen, Karen M., 2040 South York, Developmental Psychology, University of Denver, Denver, Colorado, 80210; 303-753-3625; B.A., Washington University, St. Louis, 1970, Psychology; Ed.M., Harvard University, 1972, Developmental Psychology and Education. 1. Peripheral Vision (A) 2. Reading (A) 3. Visual Scanning (A). a. On-line retinal reflection b. Off-line corneal reflection.

Cohen, Malcolm, M., Crew Systems Department, Naval Air Development Center, Warminster, Pennsylvania, 18974; 672-9000, ext. 2083; B.A., Brandeis University, 1959, Psychology; M.A., University of Pennsylvania, 1961, Psychology; Ph.D., University of Pennsylvania, 1965, Psychology. 1. Space Perception (A) 2. Vestibular Function (A) 3. Search (I). a. Corneal Reflection Camera b. E.O.G.

Coles, Peter R., Department of Experimental Psychology, University of Oxford, South Parks Road, Oxford OX1 3PS, England; B.A., Manchester University, 1971, Psychology; M.A., Manchester University, 1975, Psychology. 1. Picture perception (A) 2. Eye movements and cognitive development in infancy (A) 3. Perceptual disorders. a. Infra-red T.V. on-line analysis b. Diffuse scleral reflectivity c. E.O.G.

Collins, Carter C., Smith-Kettlewell Institute of Visual Sciences, 2232 Webster Street, San Francisco, California, 94115; 415-563-4321, ext. 2464; B.S., University of California at Berkeley, 1949, Engineering Physics; M.S., University of California at Berkeley, 1953, Electrical Engineering; Ph.D., University of California at Berkeley, 1966, Biophysics. 1. Oculomotor biophysics (A) 2. Nonlinear clinical models of eye movement (A) 3. Innervational/mechanical mechanisms of strabismus (A). a. Biometrics b. E.O.G. c. Photoelectric.

**Collins, William E.**, CAMI-FAA, AAC-118, P.O. Box 25082, Oklahoma City, Oklahoma, 73125; 405-686-4846; B.S., St. Peter's College, 1954, Sociology & Philosophy; M.A., Fordham University, 1956, Psychology; Ph.D., Fordham University, 1959, Experimental Psychology. 1. Visual control of vestibular eye movements (A) 2. Influence of alcohol and drugs on vestibular nystagmus (A) 3. Role of visual fixation in habituation of vestibular nystagmus (A). a. ENG recorders.

**Cooper, Roger M.**, Department of Psychology, University of Oregon, Eugene, Oregon, 97403; 503-686-4921; B.S., University of Illinois, 1961, Physics; M.S., Illinois Institute of Technology, 1963, Mathematics; Ph.D., Illinois Institute of Technology, 1969, Mathematics. 1. Speech understanding (A) 2. Memory (A) 3. Search (A).

**Cornsweet, Tom N.**, Ophthalmic Systems Research Lab, 7505 Fannin Street, Houston, Texas, 77025; 713-797-0291; A. B., Cornell University, 1951, Experimental Psychology; M.S., Brown University, 1953, Experimental Psychology; Ph.D., Brown University, 1955, Experimental Psychology. 1. Control of small movements (I) 2. Effects of small movements of vision (I).

**Crane, Hewitt D.**, Stanford Research Institute, Menlo Park, California, 94025; 415-326-6200, ext. 2939; B.S., Columbia University, 1947, Electronics Engineering; Ph.D., Stanford University, 1959, Electronics Engineering. 1. Visual Accommodation (A) 2. Interaction of Accommodation and Eye Movements. a. SRI Purkinje Tracker.

**Creyghton, Ton**, University of Leiden, Unit of Psychologische Funktieleer, Stationsplein 10 II, Leiden, The Netherlands; post-graduate student, Psychologised Funktieleer.

**Cumming, Geoff D.**, Department of Psychology, La Trobe University, Bundoora, Australia 3083; 478-3122 (Melbourne); B.S., Monash University, 1967, Maths Statistics; Ph.D., Oxford University, 1971, Experimental Psychology (Visual Masking). 1. Saccadic Movement (A). a. Infra-red Reflectance (under development).

**Curthoys, Ian S.**, Department of Psychology, University of Sydney, Sydney NSW, Australia; 660-9570; B.A., Sydney University, 1965, Psychology - Vision; Ph.D., Monash University, 1968, Psychology - Hearing. 1. Vestibulo-ocular reflex (A) 2. Effects on perception (A). a. E.O.G.

**Daley, Michael L.**, Department of Psychiatry, University of Oregon Health Science Center, Portland, Oregon, 97201; 503-225-8462; B.S.E.E., University of Massachusetts, 1968, Electrical Engineering; M.S.E.E., University of Rochester, 1970, Control Systems and Electrical Engineering; Ph.D., University of Rochester, 1973, Visual Psychophysic Control System. 1. Psychotropic drugs and visual neurophysiology (A) 2. Smooth pursuit control (I) 3. Perception of discrete targets (A). a. Infrared reflection b. E.O.G. c. Visual observation.

Davidson, Michael, Department of Psychology, University of Rochester, Rochester, New York, 14627; 716-275-2456; B.S., Purdue University, 1959, Engineering; M.S., University of California at Berkeley, 1962, Engineering; Ph.D., University of California at Berkeley, 1966, Psychology.  
1. Localization (I) 2. Sensorimotor coordination (A). a. E.O.G.

Davis-King, W. Michael, Department of Physiology & Biophysics, University of Washington, Seattle, Washington, 98195; 206-543-5350; A.B., Harvard University, 1966, Physics; M.S., Northeastern University, 1969, Electrical Engineering. 1. Brainstem (A) 2. Superior colliculus (I)  
3. Cerebellum (I). a. E.O.G. b. Search coil.

Day, Merle E., Mental Health Clinic, Downey Veterans Administration Hospital, Downey, Illinois, 60064; 312-689-1900, ext. 463; B.S., Long Island University, 1951, Psychology; M.A., Long Island University, 1953, Psychology; Ph.D., New York University, 1957, Psychology. 1. Left-movers vs. Right-movers (A) 2. Attentional Processes (A) 3. Psychotherapy (A).  
a. E.O.G. b. E.E.G.

Deutsch, Stanley, Director, Bioengineering HQ, NASA, Washington, D.C., 20546; 202-755-3300; Certificate, Rhode Island State College, 1944, Basic Engineering; B.A., Brooklyn College, 1948, Psychology; M.S., Purdue University, 1951, Industrial Psychology; Ph.D., Purdue University, 1957, Industrial Psychology. 1. Signal detection (I) 2. Display reading (A)  
3. Visual attention.

Edwards, David C., Department of Psychology, Iowa State University, Ames, Iowa, 50010; 515-294-1742; B.S., University of Wisconsin at Milwaukee, 1959, Psychology; M.A., Iowa State University, 1961, Psychology; Ph.D., Iowa State University, 1962, Psychology. 1. Attention (A) 2. Peripheral Detection (A) 3. Visual Search (A). a. Corneal Reflection b. E.O.G.

Ellison, Richard, McDonnell Douglas, #1 Fox Meadow Lane, Cahokia, Illinois, 62206; 314-232-6640; B.A., So. Illinois University, 1969, Physiology; M.S., So. Illinois University, 1971, Physiology. 1. Scanning (I)  
2. Point of fixation (I). a. Biometrics eye-movement monitor.

Farley, Arthur, Computer Science Department, University of Oregon, Eugene, Oregon, 97403; 503-686-4428; B.S., Rensselaer Polytechnic Institute, 1968, Mathematics; Ph.D., Carnegie-Mellon University, 1974, Computer Science. 1. Picture Perception (A).

Festinger, Leon, 65 Fifth Avenue, New York, New York, 10003; 212-243-2777; B.S., City College of New York, 1939, Psychology; M.A., State University of Iowa, 1940, Psychology; Ph.D., State University of Iowa, 1942, Psychology. 1. Control System (A) 2. Effect on perception (A).  
a. SRI Eyetracker b. E.O.G.

**Findlay, John**, Department of Psychology, University of Durham, Durham, DH1 3LE, England; B.A., Cantabury University, 1963, Physics; Ph.D., Cantabury University, 1967, Physics. 1. Visual parameters of the fixation reflex (A) 2. Performance effects on microsaccades (A) 3. Direction perception and microsaccades (I). a. Bifurcated fibre Optics limbus tracking b. Infrared corneal reflex devide.

**Fisher, Dennis F.**, Behavioral Research Directorate, U.S. Army Human Engineering Laboratory, Aberdeen Proving Ground, Maryland, 21005; 301-278-3273; B.A., San Jose State, 1965, Psychology; M.A., University of Delaware, 1970, Experimental Psychology; Ph.D., University of Rochester, 1973, Experimental Psychology (Vision). 1. Reading (A) 2. Visual Search (A). a. Lambert oculomotor b. Biometrics.

**Fishman, Rachelle Batushansky**, 3871 Sedgwick Avenue, 2J, Bronx, New York, 10463; 212-884-7952; B.A., Brooklyn College, 1969, Chemistry and Biology; M.A., The City College, 1970, Biology, Animal Behavior; Ph.D., City University of New York, 1975 (Anticipated). 1. Development (A) 2. Attention, visual centering (A) 3. Reading (I). a. Videotape and microscope.

**Flagg, Barbara N.**, 413 Larsen Hall, Appian Way, Harvard University, Cambridge, Massachusetts, 02138; 617-495-3541; A.B., Mount Holyoke College, Psychology. 1. Motion Picture Perception (A) 2. Selective Attention (I) 3. Reading (I). a. Whittaker Eye View Monitor.

**Flom, Merton C.**, School of Optometry, University of California, Berkeley, California, 94619; 415-642-6547; B.S., University of California, 1950, Optometry; M.Optom., University of California, 1951, Optometry; Ph.D., University of California, 1957, Physiological Optics. 1. Drug effects (A) 2. Illusions (A) 3. Normal Tracking (A). a. Eye-trac b. E.O.G. c. Limbal sensing.

**Frecker, Richard C.**, Institute of Biomedical Engineering, University of Toronto, 4 Taddle Creek Road, Toronto, Ontario, Canada M5S 1A4; 416-928-4801; B.S., Memorial University, 1961, Biology; M.D., Dalhousie University, 1966, Medicine; Ph.D., University of Toronto, 1973, Pharmacology & Bioengineering. 1. Psychotropic drug effects on Saccadic Movements 2. Diurnal Variations in Saccadic Movements 3. Saccades as predictors of CNS disease. a. Own developed corneal reflection technique (high resolution) b. Mackworth/Llewellyn-Thomas head camera.

**Frost, Douglas**, Room E10-145, Department of Psychology, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Massachusetts, 02139; 617-253-5718; S.B., MIT, 1971, Electrical Engineering; S.M., MIT, 1971, Electrical Engineering; Ph.D., MIT, Expected 1974, Psychology & Brain Science. 1. Central control of eye movements 2. Eye movements in humans with brain damage. a. E.O.G. recording system.

Fry, Glenn A., Ohio State University, College of Optometry, 338 West Tenth Avenue, Columbus, Ohio, 43210; 614-422-6603; A.B., Davidson College, 1929, Psychology; v.A., Duke University, 1931, Psychology; Ph.D., Duke University, 1932, Psychology. 1. Convergence in relation to accommodation and convergence 2. Fixational and Fusional movements 3. Search. a. Biometrics Eye Movement Monitor b. Ophthalmograph c. Oculography.

Fuchs, Albert F., Department of Physiology & Biophysics and Primate Center, University of Washington, Seattle, Washington, 98195; 206-543-1430; B.S., Drexel Institute of Technology, 1960, Electrical Engineering; M.S., Drexel Institute of Technology, 1961, Medical Instrumentation; Ph.D., Johns Hopkins University, 1966, Bioengineering. 1. Neurophysiology of eye movements (A) 2. Characteristics of normal eye movements 3. Vision during saccades. a. Eye Coil (magnetic field coils) b. E.O.G.

Gainer, P. A., Langley Research Center (M.S. 152D), Langley Station, Hampton, Virginia, 23665; 827-3871; B.S., West Virginia University, 1952, Aerospace Engineering. 1. Flight management systems (A). a. Honeywell.

Gibbon, Jr., Samuel Y., 421 Larsen Hall, Appian Way, Cambridge, Massachusetts, 02146; 617-495-3541; A.B., Princeton University, 1953, English Literature. 1. Television (A) 2. Reading (A) 3. Search (I).

Goodson, James E., Head, Aerospace Psychology Department, Naval Aerospace Medical Research Laboratory, Naval Aerospace Medical Institute, Naval Aerospace and Regional Medical Center, Pensacola, Florida, 32512; 904-452-3281; B.A., Baylor University, 1955, Psychology; M.A., Baylor University, 1956, Psychology; Ph.D., George Washington University, 1969, Psychology/Biophysics. 1. Visual Acquisition (A) 2. DVA (A) 3. Optokinetic Response (A). a. Biometrics b. E.O.G. c. SRI.

Goolkasian, Paula, Department of Psychology, University of North Carolina at Charlotte, Charlotte, North Carolina, 28223; 567-2116; B.A., Emmanuel College, 1970, Economics/Psychology; M.S., Iowa State University, 1972, Psychology; Ph.D., Iowa State University, 1974, Psychology. 1. Visual attention (A) 2. Training effect on peripheral detection (I). a. E.O.G.

Gould, John, IBM Research Center, Box 218, Yorktown Heights, New York, 10541; 914-945-2237; Ph.D., University of Wisconsin, 1963, Psychology. 1. Search (I) 2. Pictures (A) 3. Memory (A). a. TV - corneal reflectance.

Griffin Donald C., 4105 Pacific Avenue #7, Marina Del Rey, California, 90291; B.A., Oberlin College, 1960, Psychology; M.A., University of California at Los Angeles, 1966, Education; M.A., University of California at Los Angeles, 1968, Psychology; Ph.D., University of California at Los Angeles, 1968, Education. 1. Reading (A).

**Guedry, F. E.**, Naval Aerospace Medical Research Laboratory, NAMI, NARMC, Pensacola, Florida, 32512; 904-452-2541; M.S., Tulane University, 1948, Psychology; Ph.D., Tulane University, 1953, Psychology. 1. Reading (A) 2. Search (A). a. Corneo Retinal Potential Amplification b. Reflected light into photocells.

**Guitton, Daniel**, Aviation Medical Research Unit, Department of Physiology, McGill University, Montreal, Canada; 514-392-4219; Ph.D., McGill University, 1970, Engineering; Ph.D., McGill University, 1974, Neurophysiology. 1. Neurophysiology of visual and oculomotor systems (A). a. Eye coil in magnetic field (Robinson). b. E.O.G.

**Haber, Ralph Norman**, Department of Psychology, University of Rochester, Rochester, New York, 14627; 716-275-2066; B.A., Michigan University, 1953, Philosophy; M.A., Wesleyan University, 1954, Psychology; Ph.D., Stanford University, 1957, Psychology. 1. Reading (A) 2. Search (A) 3. Picture Reading (A). a. home-made.

**Haegerstrom-Portnoy, Gunilla**, Smith-Kettlewell Institute of Visual Sciences, 2232 Webster Street, Room 204, San Francisco, California, 94115; 415-567-2865; B.S., University of California, 1970, Optometry; O.D., University of California, 1972, Optometry. 1. Saccadic Control (A) 2. Smooth Pursuit Control (A) 3. Search (I). a. Limbal Sensing b. E.O.G.

**Hainline, Louise Donnee**, Department of Psychology, Brooklyn College, Brooklyn, New York, 11210; 212-780-5033; A.B., Brown University, 1969, Psychology; A.M., Harvard University, 1972, Psychology (developmental); Ph.D., Harvard University, 1973, Psychology (developmental). 1. Infant Pattern Vision (A) 2. Infant Psychophysics (A). a. Whittaker Eye View Monitor.

**Haith, Marshall M.**, 2040 South York St., Denver, Colorado, 80210; 303-753-2041; B.A., University of Missouri, 1959, Psychology; M.A., University of California at Los Angeles, 1962, Child Psychology; Ph.D., University of California at Los Angeles, 1964, Developmental Psychology. 1. Form Perception (A) 2. Reading (A) 3. Visual Search (A). a. Off-line corneal reflection b. On-line retinal reflection.

**Hall, Lesley C.**, Psychology Department, Monash University, Clayton, Melbourne, Victoria, Australia 3168; 544-0811, ext. 3962; B.A., Australian National University, 1969, Psycholinguistics; Ph.D., Edinburgh University, 1975, Developmental - Eye Movement Control. 1. Directive role of language (A) 2. Developmental aspects (A) 3. Reading (I). a. Corneal Reflection.

**Hall, Robert J.**, Department of Psychology, University of Nevada, Las Vegas, Nevada, 89154; 702-739-3254; B.A., University of Wyoming, 1952, Psychology; M.A., University of Wyoming, 1955, Psychology; Fulbright, University of London, England, 1956, Psychology; Ph.D., Claremont Graduate School, 1966, Psychology. 1. Stress 2. Centrifugal control 3. Evoked potential.

Hallett, P. E., Department of Physiology, University of Toronto, Ontario, M5S 1A8, Canada; 416-928-6072. 1. Saccades and Smooth Pursuit movements with stationary head 2. Night vision 3. Oculovestibular reflex. a. Self built infra red diode device.

Hein, Alan, Psychology Department, E10-20C, MIT, Cambridge, Massachusetts, 02139; 716-253-5759; Ph.D., Brandeis University, 1960, Psychology. 1. Guidance of Behavior 2. Ontogenesis.

Herzfeld, Gerald, 9132 Edmonson Terrace, Greenbelt, Maryland, 20770; 301-474-1341; B.A., Queens College, 1968, Psychology; M.A., Catholic University, 1975, Applied Experimental Psychology. 1. Reading (A).

Hochberg, Julian, 314 Schermerhorn Hall, Columbia University, New York, New York, 10027; 212-280-4585; B.S., City College of New York, 1945, Physics; M.A., University of California at Berkeley, 1947, Psychology; Ph.D., University of California at Berkeley, 1949, Psychology. 1. Reading (A) 2. Simulation (A) 3. Picture perception (A). a. Corneal reflection b. E.O.G. c. Direct telescopic motion picture photography.

Holden, R. W., Department of Psychology, University of Melbourne, Parkville, Victoria, Australia 3052; B.A., Manitoba University, 1974, Psychology. 1. Relation of eye movements to problem solving (A) 2. Search (I) 3. Reading (I). a. Whittaker eye view monitor.

Iwawaki, Saburo, Department of Psychology, Chukyo University, Showaku, Nagoya, 466 Japan, Ph.D., Tohoku University, 1972, Psychology. 1. Visual search (A) 2. Visual attention (A) 3. Cognitive Psychology (A).

Jex, Henry R., Systems Technology, Inc., 13766 South Hawthorne Boulevard, Hawthorne, California, 90250; 213-679-2281; B.S., Massachusetts Institute of Technology, 1951, Aerospace Engineering; M.S., California Institute of Technology, 1953, Aerospace Engineering. 1. Manual Control Displays 2. Image Scanning and Perception 3. Reading. a. STI Mark I and Mark II Eye Point of Regard Systems.

Jones, Daniel B., Chief, Human Factors Engineering, Martin Marietta Aerospace, P.O. Box 5837, Orlando, Florida, 32805; 305-352-4387; B.A.E., University of Florida, 1943, Engineering; M.S., Tulane University, 1950, Psychology; Ph.D., University of Missouri, 1965, Psychology. 1. Search leading to Target Acquisition (A).

Jones, G. Melville, DRB Aviation Medical Research Unit, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Quebec, Canada H3C 3G1; 514-392-4217; M.A., 1944, Nat. Sci.; M.B.Beh., Cambridge University, 1949, Medicine. 1. Neurophysiology 2. Aerospace Medicine. a. E.O.G. b. Electromagnetic c. Photographic.

Judge, Stuart J., Department of Communication, University of Keele, Keele, Staffordshire ST5 5BG, England; Phone: Keele Park 371; B.A., University of Keele, 1969, Physics & Math. 1. Vision during eye movements (A) 2. Neural Mechanisms of eye movement control (A) 3. Visuo-motor integration (I). a. E.O.G. b. Contact lens c. Photoelectric (iris-scleral reflection).

Just, Marcel Adam, Psychology Department, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 15213; 412-621-2600, ext. 323; B.Sc., McGill University, 1968, Psychology; Ph.D., Stanford University, 1972, Psychology. 1. Comprehension (A) 2. Problem-Solving (A) 3. Scene Perception (A). a. Corneal reflection b. Digitizer c. Gaze-contingent video display.

Kahn, Arthur, 2 Cove of Cork Lane, Annapolis, Maryland, 21401; 301-765-3014; B.A., University of Pennsylvania, 1938, Chemistry; M.A., University of Pennsylvania, 1941, Psychology; Ph.D., Indiana University, 1952, Psychology. 1. Search (I) 2. Tracking (I) 3. Eye-Hand Coordination (I).

Kappauf, William E., 713 Psychology Building, University of Illinois, Champaign, Illinois, 61820; 217-333-3636; A.B., Columbia University, 1934, Mathematics; M.A., Brown University, 1935, Psychology; Ph.D., University of Rochester, 1937, Psychology. 1. Scale Reading (A).  
a. Biometrics.

Kennedy, Alan R., Psychology Department, University of Dundee, Dundee, Scotland, U-V; 0382-23181; Ph.D., Birmingham University, 1963, Psychology. 1. Reading (A) 2. Associative priming and reading (A).  
a. Infrared reflection with on-line analysis by PDP-12 computer.

Kennedy, Robert Samuel, U.S. Naval Missile Center, Code 5342, Point Mugu, California, 93042; 805-982-8981; B.A., Iona College, 1957, English; M.A., Fordham University, 1959, Experimental Psychology; Ph.D., University of Rochester, 1972, Sensation & Perception, Vestibular Functions. 1. Visually coupled systems (A) 2. Visual target acquisition & dial reading (A) 3. Eye movement as independent measures of arousal (A).  
a. Biometrics - IR Eyeglass System b. E.O.G. c. Mackworth camera  
d. NAK - Head-mounted Electro-Optic Sensor.

Ketcham, Mary A., Human Factors Engineering Branch, N342, Naval Missile Center, Point Mugu, California, 93042; 805-982-8981; B.S. Washington University, 1970, Electronic Engineering. 1. Eye Movements and Behavior. a. Biometrics SVG/2 b. E.O.G.

Kinchla, Ronald A., Department of Psychology, Princeton University, Princeton, New Jersey, 08540; 609-452-4471; Ph.D., UCLA, 1960, Experimental Psychology. 1. Movement Perception (A) 2. Involuntary eye movements (I) 3. Micro-saccadic (I).

**Kolers, Paul A., Department of Psychology, University of Toronto, Toronto Canada M5S 1A1; 416-928-7305; Ph.D., New York University, 1957, Psychology.** 1. Reading (A) 2. Looking (A) 3. Search (A). a. Purkinje Eye Tracker.

**Komoda, Melvin K., 65 Fifth Avenue, New York, New York, 10003; 212-675-2700; B.A., University of Hawaii, 1965, Psychology, M.A. University of Hawaii, 1968, Psychology; Ph.D., York University, 1971, Experimental Psychology.** 1. Characteristics of Eye Movement Control Systems (A) 2. Space and Movement Perception (A) 3. Reading (I). a. Cornsweet and Crane Eyetracker b. Electro-oculography.

**Kowler, Eileen, Department of Psychology, University of Maryland, College Park, Maryland, 20742; 454-5351; B.A., Queens College, 1972, Psychology.** 1. Pursuit eye movements (A) 2. Eye movements and perception (I) 3. Eye movements in infants (I). a. Contact lens optical lever.

**Krebs, Marjorie J., R2340, 2600 Ridgeway Parkway, Systems and Research Center, Honeywell, Inc., Minneapolis, Minnesota, 55413; B.S., Pennsylvania State University, 1962, Psychology; M.A., University of Virginia, 1968, Experimental Psychology; Ph.D., University of Virginia, 1971, Experimental Psychology.** 1. Search (target acquisition) (A) 2. Pilot Scanning Patterns (A) 3. Reading (A). a. Honeywell Mark III A Cubic Foot Oculometer b. Honeywell Viewing Hood Oculometer.

**Kundel, Harold L., Department of Radiology, Temple University School of Medicine, Philadelphia, Pennsylvania, 19140; 215-221-4011; M.D., Columbia University, 1959, Medicine, M.S., Temple University, 1963, Radiology; A.B., Columbia University, 1958, Lib. Arts.** 1. X-Ray Film Reading (A) 2. Peripheral Vision (A). a. Mackworth Stand Camera.

**Kurbjun, Max C., Langley Research Center (M.S. 152D), Langley Station, Hampton, Virginia, 23665; 804-827-2282; B.S., Virginia Polytechnic Institute, 1944, Aerospace Engineering.** 1. Cockpit Instrumentation (A). 2. Pilot Training (A) 3. Cockpit Design Certification (A). a. Honeywell b. Modified Honeywell c. SRI.

**Lai, David C., Department of Electrical Engineering, University of Vermont, Burlington, Vermont, 05401; 802-656-3330; Ph.D. Johns Hopkins University, 1960, Electrical Engineering.** 1. Measurement and recording (A) 2. Search and scanning behavior (A) 3. Eye Movements and Higher Mental Processes (A). a. Biometrics Eye Tracker.

**Lambert, Robert H., Behavioral Research Directorate, U.S. Army Human Engineering Laboratory, Aberdeen Proving Ground, Maryland, 21005; 301-278-5175; B.S., University of Michigan, 1959, Aeronautical Engineering.** 1. Instrumentation (A). a. EG&G/HEL Oculometer.

**Lefton, Lester A., University of South Carolina, Department of Psychology, Columbia, South Carolina, 29208; 803-777-2539; B.A., Northeastern University, 1969, Psychology; Ph.D., University of Rochester, 1972, Psychology.** 1. Reading (A) 2. Search (A). a. Biometric Eye-Trac.

**Leisman, Gerald**, Department of Health Sciences, Brooklyn College, CUNY, Brooklyn, New York, 11210; 212-723-5692/5026; B.A., Queens College, CUNY, 1967, Psychology/Biology; M.S., University of Manchester, 1969, Physiology; Ph.D., University of Manchester, 1971, Neurosciences; M.B., University of Manchester, 1972, Medicine. 1. Visual Perception (A) 2. Saccadic Control/Servo Systems (A) 3. Reading (A).  
a. E.O.G. b. Infra-red scanning c. Stabilized image procedures.

**LeMaster, W. Dean**, Air Force Human Resources Laboratory, Williams AFB, Arizona, 85224; 602-988-2611, ext. 6945; M.A., New Mexico State University, 1971, Psychology. 1. Visual Cue Utilization During Flight (A) 2. Flight Simulator Visual Systems (A) 3. Peripheral Vision (I). a. NAC Eye Mark Recorder.

**Levy, Deborah L.**, Department of Psychiatry, Box 411, University of Chicago, 950 E. 59th St., Chicago, Illinois, 60637; 312-947-6984; B.A., University of Chicago, 1972, Political Science; Ph.D., University of Chicago, 1976, Psychology. 1. Smooth pursuit eye movements in psychiatric patients (A) 2. Vestibular responses in psychiatric patients (A).  
a. Beckman dynographs (ENG) b. Hewlett-Packard 3960 FM tape recorder.

**Lisberger, Stephen G.**, Department of Physiology and Biophysics and Regional Primate Research Center, University of Washington, Seattle, Washington, 98195; 206-543-5350; B.A., Cornell University, 1971, Mathematics.  
1. Vestibulo-ocular reflex (A) 2. Brainstem neural mechanisms (A)  
3. Cerebellar influences on eye movements (A). a. Search coil b. E.O.G.

**Llewellyn-Thomas, E.**, Institute of Biomedical Engineering, University of Toronto, Toronto, Ontario, Canada; 416-928-3114; B.S., London, 1951, Electrical Engineering; M.D., McGill University, 1955, Medicine.  
1. Search (I) 2. Drugs on eye movements (A). a. Eye monitor head camera.

**Loeb, Michel**, Psychology Department, University of Louisville, Louisville, Kentucky, 40280; 502-636-6107; B.S., University of Alabama, 1948, Chemistry; M.S., Columbia University, 1949, Psychology; Ph.D., Vanderbilt University, 1953, Psychology. 1. Visual Tracking (A) 2. Form Identification (I) 3. Observing responses during monitoring (I).  
a. Space science IR recorder b. Polymetric wide angle "Mackworth" device.

**Loftus, Geoffrey Russell**, Psychology Department, University of Washington, Seattle, Washington, 98195; 206-543-8874; B.A., Brown University, 1967, Psychology; Ph.D., Stanford University, 1971, Psychology. 1. Picture Memory. a. Home-built scleral reflection.

**Luria, S. S.**, Naval Medical Research Laboratory, Sub Base, Groton, Connecticut, 06340; 203-449-3867; Ph.D., University of Pennsylvania, 1955, Experimental Psychology. 1. Search 2. Cognition. a. Biometrics Eye Movement Monitor.

Lyman, John, 4173 Engineering I, University of California at Los Angeles, Los Angeles, California, 90024; 825-2811; B.A., University of California at Los Angeles, 1943, Mathematics and Psychology; M.A., University of California at Los Angeles, 1950, Mathematics and Psychology; Ph.D., University of California at Los Angeles, 1951, Experimental Psychology.  
1. Skilled Hand Movement (A) 2. Restricted Visual Fields (A) 3. Eye-Motor Coordinated Movement. a. Mackworth Camera b. E.O.G.

MacKay, D. M., Dept. of Communication, University of Keele, Keele, Staffordshire ST5 5BG, England; Phone: 0782-71-371; B.S., St. Andrews, 1943, Physics; Ph.D., London, 1951, Physics. 1. Visual Stability 2. Saccadic Suppression. a. E.O.G. b. Contact lens.

Mackworth, Norman H., 16232 Camellia Terrace, Los Gatos, California, 95030; 408-356-9643; M.B. Ch.B., Aberdeen University, 1939, Medicine; Ph.D., Cambridge University, 1947, Psychology. 1. Reading 2. Learning Disability 3. Cognitive Psychology. a. Mackworth line of sight eye camera b. Mackworth Stand Eye Camera.

Magnuski, H. S., Durand 141A, ISL, Stanford University, Stanford, California, 94305; 415-497-4544; B.S.E.E., University of Illinois, 1965, Electrical Engineering; M.S.E.E., MIT, 1966, Electrical Engineering; Ph.D., MIT, 1973, Electrical Engineering. 1. Computer Analysis of Scan Paths (A) 2. Real-Time Eye-Movement-Controlled Displays (A). a. Biometrics SGH/V-2.

Matheny, W. G., Life Sciences, Inc., 227 Loop 820 NE, Hurst, Texas, 76053; 817-284-3438; A.B. Ft. Hays Kansas State, 1946, Psychology; Ph.D., University of Maryland, 1949, Industrial Psychology. 1. Pilot Information Display Content (A) 2. Search (A). a. NAC Eye Mark Recorder.

Matin, Ethel, C. W. Post Center of L. R. University, Greendale, New York, 11548; 516-299-2377; B.A., Hunter College, 1952, Psychology & Physiology; Ph.D., Columbia University, 1962, Experimental Psychology.  
1. Saccades and constancy of visual direction (A) 2. Saccadic suppression (A) 3. Temporal characteristics of saccades (I). a. Contact lens technique.

Matin, Leonard, Department of Psychology, Columbia University, New York, New York, 10027; 212-280-4538; B.S., Brooklyn College, 1950, Psychology; M.A., University of North Carolina, 1952, Psychology; Ph.D., Columbia University, 1959, Psychology. 1. Visual Direction or Spatial Localization (A) 2. Control and Generation (A). a. Optical Leyer Contact Lens.

McConkie, George W., Department of Education, Stone Hall, Cornell University, Ithaca, New York, 14850; 607-256-2063; B.S., Brigham Young University, 1960, Psychology; M.S., Brigham Young University, 1961, Psychology; Ph.D., Stanford University, 1966, Experimental Psychology. 1. Reading (A). a. Biometrics Type SG.

**Mezrich, Joseph J.**, RCA Laboratories, Princeton, New Jersey, 08540; 609-452-2700; S.M., Massachusetts Institute of Technology, 1969, Electrical Engineering; E.E., Massachusetts Institute of Technology, 1970, Electrical Engineering; A.M., University of Michigan, 1974, Statistics; Ph.D., University of Michigan, 1975, Psychology. 1. Pattern perception (I) 2. Cognitive psychology (I).

**Miller, James M.**, Department of Industrial and Operations Engineering, University of Michigan, Ann Arbor, Michigan, 48104; 313-763-2189; B.M.E., Ohio State University, 1963, Mechanical Engineering; Ph.D., Ohio State University, 1971, Industrial Engineering. 1. Air & Surface Vehicle Operator Behavior (A) 2. Industrial Operations-Inspection and Monitoring (A) 3. Markouian Search and Scan (I). a. Portable TV Corneal Reflection b. Scleral Reflection.

**Mocharnuk, John B.**, Engineering Psychology Department, McDonnell Douglas Astronautics Co., Box 516, St. Louis, Missouri, 63166; 314-232-6340; B.A., University of New Mexico, 1969, Psychology; M.A., New Mexico State University, 1974, Experimental Psychology; Ph.D., New Mexico State University, 1976, Engineering Psychology. 1. Search (A) 2. Display positioning (I) a. Biometrics IR b. E.O.G.

**Mohler, Charles**, N.I.H., Building 36, 1D02, Bethesda, Maryland, 20014; 301-496-4864; B.S., Purdue University, 1966, Engineering; Ph.D., Case Western Res., 1971, Biomedical Engineering; M.D., Case Western Res., 1972, Medicine. 1. Vision 2. Eye Movements 3. Neurophysiology. a. E.O.G.

**Monty, Richard A.**, Behavioral Research Directorate, U.S. Army Human Engineering Laboratory, Aberdeen Proving Ground, Maryland, 21005; 301-278-4478; B.A., Boston University, 1956, Physics; M.A., Columbia University, 1957, Experimental Psychology; Ph.D., University of Rochester, 1961, Experimental Psychology. 1. Reading (A) 2. Search (A) 3. Memory (A). a. Lambert Oculometer.

**Mortimer, Rudolf G.**, Highway Safety Research Institute, University of Michigan, Ann Arbor, Michigan, 48105; 313-764-4158; B.A., New York University, 1959, Industrial Psychology; M.A., New York University, 1961, Experimental Psychology; Ph.D., Purdue University, 1963, Industrial/Experimental Psychology. 1. Day and Night Driving Eye Fixations Patterns (A) 2. Effects of Drugs on Eye Fixations in Driving (A) 3. Aviation (A). a. CCTV Eye Marker.

**Mourant, Ronald R.**, 632 Putnam, Wayne State University, Detroit, Michigan, 48202; 313-577-3822; B.A., University of Florida, 1963, Psychology; M.A., University of Florida, 1965, Psychology; Ph.D., Ohio State, 1971, Industrial Engineering. 1. Driver Eye Movements (A) 2. Search (I). a. Automobile television system b. Computer controlled lab unit.

Murphy, Brian J., Department of Psychology, University of Maryland, College Park, Maryland, 20742; 301-454-5351; B.S., Hobart College, 1971, Psychology; M.A., University of Maryland, 1973, Psychology. 1. Perception of motion (A) 2. Vision and maintenance of vision (A) 3. Stimulus effects on control of eye movements (search) (A). a. Electronic contact lens optical lever b. E.O.G.

Nakayama, Ken, Smith-Kettlewell Institute of Visual Sciences, 2232 Webster Street, San Francisco, California, 94115; 415-563-4321; B.A., Haverford College, 1962, Psychology; Ph.D., UCLA, 1968, Physiological Psychology. 1. Kinematics (A) 2. Neurophysiology (A). a. Photographic (3 degrees of freedom).

Newell, Allen, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 15213; 412-621-2600 Ext. 562; B.S., Stanford University, 1949, Physics; Ph.D., Carnegie Institute of Technology, 1957, Industrial Administration. 1. Problem Solving (A). a. Corneal Reflection.

Nodine, Calvin F., Department of Educational Psychology, Temple University, Philadelphia, Pennsylvania, 19122; 215-787-6103; A.B., Bucknell University, 1954, Psychology; M.A., Bucknell University, 1959, Psychology; Ph.D., University of Massachusetts, 1962, Psychology. 1. Reading Research (A) 2. Visual Search (A) 3. Recognition of Pictures (A). a. Mackworth wide-angle camera.

O'Hanlon, James F., Human Factors Research, Inc., 6780 Cortona Drive, Goleta, California, 93017; 805-968-1071; B.A., University of California at Santa Barbara, 1961, Psychology; M.A., California State University at Los Angeles, 1963, Experimental and Physiological Psychology; Ph.D., University of California at Santa Barbara, 1970, Biological Sciences. 1. Visual Search (A) 2. Fatigue (A) 3. Sleep (REM) (A). a. E.O.G.

Osaka, Ryoji, Department of Aerospace Psychology, Institute of Environmental Medicine, Nagoya University, Nagoya 464, Japan; 052-781-5111, ext. 6390; B.A., University of Tokyo, 1943, Visual perception; M.A., University of Kyoto, 1950, Visual perception; D.Litt., University of Tokyo, 1961, Celestial Illusion. 1. Search (A) 2. Higher mental activity (I) 3. Apparatus (A) a. Corneal reflection (photo) b. E.O.G. c. Computerized in near future.

Pavlidis, George Th., Department of Psychology, University of Manchester, Manchester M13 9PL, England; 0044-061-2733333, ext. 328; B.A., Aristotlean University of Thessaloniki, 1972, Psychology - Education; Ph.D., University of Manchester, 1976, Psychology. 1. Eye movements and language use and comprehension in young children (A) 2. Reading research (A) 3. Picture Perception (A). a. Photo-electric b. Pavlidis' Bio-digitiser c. E.O.G.

- Pola, Jordan**, Department of Basic Optometric Sciences, State University of New York, State College of Optometry, 122 East 25th Street, New York, New York, 10010; 212-673-4500 ; B.S., Columbia University, 1966, Philosophy; Ph.D., Columbia University, 1973, Experimental Psychology.  
1. Neurophysiology (A) 2. Perceived direction during eye movements (I).  
a. D. A. Robinson's electro-magnetic system.
- Pollack, Irwin**, Mental Health Research Institute, University of Michigan, Ann Arbor, Michigan, 48104; 313-763-1143; Ph.D., Harvard University, 1949, Psychology. 1. Visual Search (A) 2. Reading (I).
- Potter, Mary C.**, E10-037, MIT, Cambridge, Massachusetts, 02139; 617-253-5526; B.A., Swarthmore, 1952, Psychology; Ph.D., Radcliffe, 1961, Psychology.  
1. Simulating eye movements with rapid visual presentation 2. Search  
3. Reading.
- Putz, Vernon R.**, National Institute for Occupational Safety and Health, 1014 Broadway, Cincinnati, Ohio, 45202; 513-684-2155; B.S., University of Wisconsin - Madison, 1965, Psychology; M.S., University of Wisconsin-Madison, 1967, Psychology; Ph.D., University of Wisconsin - Madison, 1969, Psychology. 1. Eye as a Control System (I) 2. Search-Scan (A)  
3. Reading (I). a. Photo-electric b. E.O.G. c. Biometric Device.
- Rappaport, Maurice**, Research Department, Agnews State Hospital, San Jose, California, 95114; 408-246-0630; B.S., New York City College, 1950; M.S., Ph.D., Ohio State University, 1954; M.D., Stanford University, 1962. 1. Attention (A) 2. Reading (A) 3. Brain Dysfunction (A).  
a. Mackworth Eye Movement Camera b. Saccadic Eye Movement Camera.
- Rayner, Keith**, 601 Math-Science, University of Rochester, Rochester, New York, 14612; 716-275-5311; B.A., University of Utah, 1968, Psychology; M.S., University of Utah, 1970, Psychology; Ph.D., Cornell University, 1974, Psychology. 1. Reading 2. Peripheral Search. a. Scleral reflection interfaced with computer.
- Richards, W.**, MIT, Department of Psychology E10-135, Cambridge, Massachusetts, 02139; 617-253-5776; Ph.D., MIT, 1965, Psychology. 1. Vergence 2. Binocular vision 3. Squint. a. E.O.G. b. Photocell.
- Riggs, Lorrin A.**, Psychology Department, Brown University, Providence, Rhode Island, 02912; 401-863-2512; A.B., Dartmouth College, 1933, Psychology; M.A., Clark University, 1934, Psychology; Ph.D., Clark University, 1936, Psychology. 1. Saccadic suppression (A) 2. Stabilized images (I)  
3. Physiological nystagmus (I). a. E.O.G. b. Corneal reflection.
- Robinson, David A.**, Department of Ophthalmology, Johns Hopkins University School of Medicine, Room 355 Woods Research Bldg., Wilmer Institute, 601 N. Broadway, Baltimore, Maryland, 21205; 301-955-3587; B.A., Brown University, 1947, Applied Mathematics; M.S., Johns Hopkins University, 1956, Electrical Engineering; Dr.Eng., Johns Hopkins University, 1959, Electrical Engineering. 1. Neurophysiology (A) 2. Modeling (A).  
a. Magnetic field coil.

Robinson, David Lee, Laboratory of Neurobiology, Building 36, Room 1D-02, NIMH, Bethesda, Maryland, 20014; 301-496-4864; B.S., Springfield College, 1965, Biology, M.S., Wake Forest University, 1968, Physiology; Ph.D., University of Rochester, 1971, Neuroscience. 1. Neural Control (A) 2. Role in Vision (A) 3. Measurement (I). a. E.O.G.

Rockwell, Thomas H., Department of Industrial and System Engineering, Ohio State University, Columbus, Ohio, 43210; 614-422-6080; B.S., Stanford University, 1951, Chemical Engineering; M.S., Ohio State University, 1953, Industrial Engineering; Ph.D., Ohio State University, 1957, Industrial Engineering. 1. Driver Eye Movements (A) 2. Search (A). a. Corneal Reflection b. Biometrics.

Rosen, Larry D., c/o RMC Research Corp. 2570 West El Camino Real, Mountain View, California, 94040; 415-941-9550; B.A., University of California at Los Angeles, 1971, Mathematics; Ph.D., University of California at San Diego, 1975, Psychology. 1. Memory (A) 2. Role of eye fixation data in cognitive psychology (A) 3. Decision and judgement (I) a. Russo-Mathews scleral reflector.

Russo, J. Edward, Psychology Department, University of California at San Diego, La Jolla, California, 92037; 714-452-2946; B.S., California Institute of Technology, 1963, Math; M.S., University of Michigan, 1966, Math; Ph.D., University of Michigan, 1971, Psychology. 1. Cognitive Processes (A) 2. Reading (I) 3. Measurement (A). a. Russo-Mathew (limbus reflection).

Schrier, Allan M., Psychology Department, Brown University, Providence, Rhode Island, 02912; 401-863-2511; B.A., New York University, 1952, Psychology; M.S., University of Wisconsin, 1954, Psychology; Ph.D., University of Wisconsin, 1956, Psychology. 1. Discrimination learning in monkeys (A) 2. Search in monkeys (A). a. LINC-8 computer monitoring corneal reflection.

Schwartz, Joddy, Jersey City Medical Center, Department of Psychiatry, Jersey City, New Jersey, 07304; 201-451-9890; B.S., CCNY, 1968, Psychology; M.S., CCNY, 1972, Educational Research; Ph.D., Hofstra University, ABD, Educational Psychology (research). 1. Reading (A) 2. Visual information processing (A) 3. Visual psychophysics (A). a. E.O.G. b. Biometrics SG.

Sedgwick, Harold A., State College of Optometry, 131 East 23rd Street, New York, New York, 10010; 212-673-4500, ext. 845; B.A., Cornell University, 1967, Psychology; Ph.D., Cornell University, 1973, Psychology. 1. Eye movement control system (A) 2. Eye movement information in perception (A) 3. Eye movement adaptation (A). a. Cornsweet/Crane infrared eye tracker b. E.O.G.

**Senders, John W.**, Department of Industrial Engineering, University of Toronto, Toronto, Canada, M5S 1A4; 416-978-6823; A.B., Harvard University, 1948, Experimental Psychology. 1. Visual attention (A) 2. Scanning (A).  
a. E.O.G. b. Biometrics - SVG.

**Sharma, Satanand**, Department of Psychology, University of California at Los Angeles, Los Angeles, California, 90024; 213-825-3053; B.A., University of California at Los Angeles, 1969, Psychology; M.A., California State University, Los Angeles, 1971, Psychology; Ph.D., University of California at Irvine, 1973, Psychology. 1. Scanning Patterns/Drugs (A)  
2. Vision/Driving (A). a. Biometrics.

**Sheena, David**, Whittaker Corporation/Space Sciences Division, 335 Bear Hill Road, Waltham, Massachusetts, 02154; 617-890-5100; S.B., Massachusetts Institute of Technology, 1964, Electrical Engineering; S.M., Massachusetts Institute of Technology, 1965, Electrical Engineering; Ph.D., Massachusetts Institute of Technology, 1969, Electrical Engineering.  
1. Eye movement monitor (A) 2. Counterroll measurement (A) 3. Pupil-lometry (A). a. Whittaker Eye View Monitor.

**Shinar, David**, Institute for Research in Public Safety, Indiana University, Bloomington, Indiana, 47401; 812-337-3908; B.A., Hebrew University, 1968, Psychology; M.A., Ohio State University, 1970, Psychology; Ph.D., Ohio State University, 1973, Psychology. 1. Driver Eye Movements (I)  
2. Visual Search (A) 3. Peripheral Acuity (A).

**Sidowski, Joseph B.**, Psychology Department, University of South Florida, Tampa, Florida, 33620; 813-988-5698; B.A., Pomona College, 1952, Experimental Psychology; M.S., University of Wisconsin, 1954, Experimental Psychology; Ph.D., University of Wisconsin, 1956, Experimental Psychology.  
1. Reading (I) 2. Complex Processes (I) 3. Psychophysiological correlates (I).

**Skavenski, Alexander A.**, 440 UR - Psychology Department, Northeastern University, Boston, Massachusetts, 02115; 617-437-3043; B.S., University of Maryland, 1965, Psychology; Ph.D., University of Maryland, 1970, Psychology. 1. Perception of direction (A) 2. Miniature eye movements (A) 3. Motor-Control (I). a. Magnetic field - search coil b. Contact lens - optical lever.

**Slater, Alan M.**, Department of Psychology, University of Exeter, Exeter EX4 4PG, Devon, England; Exeter 77911, ext. 619; B.S., Swansea University, 1970, Psychology; Ph.D., Durham University, 1974, Psychology. 1. Development (A) 2. Scanpaths (A) 3. Form perception (I) a. E.O.G. b. infrared corneal reflex C.C.T.V. Device.

**Snyder, Harry L.**, 130 Whittemore, Virginia Polytechnic Institute, Blacksburg, Virginia, 24061; 703-951-5358; A.B., Brown University, 1958, Psychology; M.A., Johns Hopkins University, 1960, Psychology; Ph.D., Johns Hopkins University, 1961, Psychology. 1. Display Evaluation (A) 2. Search (A).  
a. Biometrics b. DPI Eye Tracker.

**Spady, Amos A.**, 301 Pinehurst Drive, Yorktown Virginia, 23692; 804-827-3871;  
B.S., Randolph-Macon College, 1958, Physics. 1. Pilot Scan (A) 2. Pilot  
Workload (A) a. Honeywell Mark III.

**Steinbach, Martin J.**, Department of Psychology, Atkinson College, York University, Downsview, Ontario; 416-667-3693; B.S., City University of New York, 1963, Psychology; M.A., Connecticut College, 1965, Psychology; Ph.D., MIT, 1968, Experimental Psychology. 1. Pursuit (A) 2. Comparative Studies (A). a. Contact lens (optical lever) b. Photoelectric (biometrics).

**Steinman, Robert M.**, Department of Psychology, University of Maryland, College Park, Maryland, 20742; 301-454-5351; D.D.S., St. Louis University, 1948, Dentistry; M.A., New School for Social Research, 1962, Psychology; Ph.D., New School for Social Research, 1964, Psychology. 1. Fine grain performance 2. Physiological basis

**Stern, John A.**, 1420 Grattan, St. Louis, Missouri, 63104; 314-621-4211; Ph.D., University of Illinois, 1953, Psychology. 1. Reading (A) 2. Visual Search (A) 3. Cognition (A). a. E.O.G.

**Stillman, Richard, W.** A. White Bldg. 532, St. Elizabeth's Hospital, Washington, D. C., 20032; 574-7628; M.D., Yale University, 1964, Medicine; 1. Scanning (A) 2. Drugs (A) 3. Memory (A) a. Whittaker.

**Stryker, Michael**, MIT E10-019A, Cambridge, Massachusetts, 02139; 617-253-5792; B.A., University of Michigan, 1968, Philosophy and Math; Ph.D., MIT, 1974, Psychology. 1. Saccadic control (A) 2. Neurophysiology (A) 3. Strabismus (I). a. E.O.G. b. Infrared reflectance.

**Sutker, Louis W.**, Department of Psychology, University of Victoria, Victoria, British Columbia, Canada; 604-777-6911; B.A., Tulane University, 1964, Psychology; M.S., University of Georgia, 1967, Psychology; Ph.D., University of Georgia, 1970, Psychology. 1. Visual Half-Field Perception (A) 2. Brain Damage (A) 3. Attention (A). a. Biometric Eye Movement Monitor b. Polymetric Fixation Monitor.

**Taylor, Richard L.**, Institute for Research in Human Abilities, Memorial University, St. John's, Newfoundland, Canada; 709-753-1200, ext. 3500, 2639, 3311; B.A., Occidental College, 1960, Psychology; M.A., Occidental College, 1965, Psychology; Ph.D., University of Oregon, 1968, Psychology. 1. Programming Saccades (A) 2. Aural Control of Fixation (A). a. On-Line E.O.G. and Head Mounted Electro-optic Sensors (Biometrics).

**Taylor, Stanford E.**, Hawk Drive, Lloyd Harbor, New York, 11743; 516-549-4363; BFA, Pratt Institute, 1951, Art Education; M.A., New York University, 1952, Communications. 1. Reading (A) a. EDL Reading Eye I (photographic) b. EDL Reading Eye II (electronic).

**Teichner, Warren H.**, Department of Psychology, Box 5095, New Mexico State University, Las Cruces, New Mexico, 88003; 505-646-1408; Ph.D., University of Iowa, 1951, Experimental Psychology. 1. Searching (A) 2. Scanning (A) 3. Information processing (A). a. Biometrics b. E.O.G.

**Templeton, William B.**, Department of Psychology, York University, Toronto, Ontario, Canada; 416-667-2450; B.A., Queens, Belfast, U.K., 1960, Psychology; M.S., Durham, England, 1962, Psychology; Ph.D., Durham, England, 1969, Psychology. 1. Saccadic mechanisms (A). a. Biometrics infrared monitor.

**Troster, Joel**, Institute of Biomedical Engineering, Rosebrugh Building, University of Toronto, Toronto, Ontario, Canada M5S 1A4; 416-928-3113; B.A.Sc., University of Toronto, 1972, Electrical Engineering; M.A.Sc., University of Toronto, 1974, Biomedical Engineering. 1. Drug effects on saccadic eye movements (A) 2. Diurnal variations (A) 3. Vergence movements (I) a. Lab-developed corneal reflection system b. Mackworth/Llewellyn-Thomas head camera c. E.O.G.

**Tulanay-Keesey, Ulker**, Department of Ophthalmology, University of Wisconsin Medical School, 1300 University Avenue, Madison, Wisconsin, 53705; 608-263-2328; Ph.D., Brown University, 1959, Psychology. 1. Micro eye movements (A) 2. Effect in sensitivity (A). a. Plane-mirror contact lens b. Optical lever c. E.O.G.

**Vaughan, Jonathan**, Psychology Department, Hamilton College, Clinton, New York, 13323; 315-859-4225; B.A., Swarthmore College, 1966, Psychology; M.A., Brown University, 1968, Psychology; Ph.D., Brown University, 1970, Psychology. 1. Search (A) 2. Reading (A) 3. Discrimination Learning (I). a. E.O.G. b. Photoelectric reflectance measurement c. Corneal reflection.

**Volkmann, Frances C.**, Clark Science Center, Smith College, Northampton, Massachusetts, 01060; 413-584-2700; A.B., Mount Holyoke College, 1957, Psychology; M.A., Brown University, 1959, Psychology; Ph.D., Brown University, 1961, Psychology. 1. Vision during saccades (A) 2. Search (I). a. E.O.G. b. Corneal reflection.

**Walton, Howard N.**, 3840 Main Street, Culver City, California, 90230; 839-2090; O.D., Illinois College of Optometry, 1949, Optometry; M.S., Chicago College of Optometry, 1951, Optometry, Physiological Optics. 1. Reading (A) 2. Learning Disabilities (A) 3. Research (A). a. Eye Trac b. Reading Eye Camera.

**Wang, William**, 2222 Piedmont Avenue, University of California, Berkeley, California, 94720; 415-642-5937; Ph.D., University of Michigan, 1960, Linguistics. 1. Cognition (A) 2. Reading (A) 3. Orthography design (A). a. E.O.G.

**Ward, Frank**, Department of Psychology, Wright State University, Dayton, Ohio, 45431; 513-873-2179; B.A., University of Washington, 1963, Chemistry; M.A., Wesleyan University, 1970, Psychology; Ph.D., University of Rochester, 1974, Psychology. 1. Position (A) 2. Timing (A) 3. I-R Reflecting Equipment.

**Williams, Leon G.**, Honeywell, Inc., 2600 Ridgeway, Minneapolis, Minnesota, 55417; 612-331-4141, ext. 5034; B.S., University of Michigan, 1949, Math; M.A., University of Michigan, 1952, Psychology; Ph.D., University of Michigan, 1956, Psychology. 1. Visual search (A) 2. Math modeling (A). a. Honeywell oculometer b. Honeywell eye movement device.

**Winterson, Barbara J.**, Department of Psychology, University of Maryland, College Park, Maryland, 20742; 301-454-5351 Ext. 30; B.S., University of Maryland, 1971, Psychology. 1. Comparative oculomotor performance (A) 2. Saccadic suppression (A) 3. Oculomotor physiology (A). a. Robinson's magnetic search coil b. Contact lens optical lever c. E.O.G.

**Wise, Marion A.**, Mail Stop 152D, Langley Research Center, Hampton, Virginia, 23665; 804-827-3871; A.E., CREI, 1961, Electronics. 1. Hardware (A) 2. Human Factors (A) a. Honeywell Mark II b. Biometrics.

**Wolff, Michael**, Department of Psychology, Brooklyn College, Brooklyn, New York, 11210; 212-780-5042; B.A., Brooklyn College, 1965, Psychology; Ph.D., Graduate Center, City University of New York, 1974, Social Psychology. 1. Social Organization of Looking in Public Places (A). a. Sanyo slow-motion video-tape b. Super-8 and 16mm film.

**Wood, Joan Susan Baizer**, Room 1D-02, Building 36, Laboratory of Neurobiology, NIMH, Bethesda, Maryland, 20014; 301-496-4864; B.A., Bryn Mawr College, 1968, Psychology; M.S., Brown University, 1970, Psychology; Ph.D., Brown University, 1973, Psychology. 1. Neurophysiology of target selection and EM programming (A) 2. EM and perception (A) 3. EM and visuomotor coordination (I). a. Silver-silver chloride implanted E.O.G. electrodes.

**Wurtz, Robert H.**, Room 1D-02, Building 36, NIMH, Bethesda, Maryland, 20014; 301-496-4864; Ph.D., University of Michigan, 1962, Psychology. 1. Neurophysiology (A). a. E.O.G.

**Yasui, Syozo**, Information Science, California Institute of Technology, Pasadena, California, 91109; B.S., University of Tokyo, 1963, Aeronautics and Astronautics; M.S., MIT, 1967, Control Engineering; Ph.D., MIT, 1974, Biomedical Engineering. 1. Vergence (A) 2. Relation with perception (A) 3. Nystagmus (I). a. Contact lens b. Infrared photovoltaic.

Young, Laurence R., MIT, Man-Vehicle Lab, 37-207, Cambridge, Massachusetts, 02139; 617-253-7759; A.B., Amherst College, 1957, Physics; S.B., MIT, 1957, Electrical Engineering; S.M., MIT, 1959, Electrical Engineering; Sc.D., MIT, 1962, Instrumentation. 1. Math models (A) 2. Vestibular nystagmus (A) 3. Neurophysiology (A). a. E.O.G. b. Photoelectric (Biometrics).

Zee, David, Johns Hopkins Hospital, Baltimore, Maryland, 21205; 301-955-3282; B.A., Northwestern University, 1965, Chemistry; M.D., Johns Hopkins University, 1969, Medicine. 1. Pathological eye movements 2. Neurophysiology. a. Infrared pupil tracker b. D.C., E.O.G.